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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/536,481	09/16/2005	Vincent Torre	1075-PCT-US	6893	
Albert Wai-Kit Chan Law Offices of Albert Wai-Kit Chan Wal-Discognized Co. 4			EXAMINER		
			HIRL, JOSEPH P		
· -	World Plaza Suite 604 141-07 20th Avenue		ART UNIT	PAPER NUMBER	
Whitestone, NY	Whitestone, NY 11357			2129	
			MAIL DATE	DELIVERY MODE	
			03/26/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/536,481	TORRE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Joseph P. Hirl	2129			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 16 Sec 2a) This action is FINAL . 2b) ▼ This 3) Since this application is in condition for allowant closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 16 September 2005 is/a Applicant may not request that any objection to the content of the content	r election requirement. r. ire: a)⊠ accepted or b)⊡ objec	·			
Replacement drawing sheet(s) including the correcti		• •			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/24/5.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

1. Claims 1-7 are pending in this application.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- Claim 1. The term "is grown on" raises the questions as to what is grown on and where does such grown on take place?
- Claim 2. In lines two and three, the parenthesis do not pair up and raise questions concerning relationships.
- Claim6. The term "so that forming a cell network" does not appear to modify the previous phase and raises the question of purpose of such term.

Claims 3-5 depend from rejected dependent claims and are consequently rejected.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 2-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Independent claims 2 and 6 are method claims representing abstract processing of data. The invention must have a result that is a practical application.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Buitenweg et al. (IEEE, 0-7803-7211-5/01, Nano-Ampere Stimulation Window for Cultured Neurons on Micro-Electrode Arrays, referred to as **Buitenweg**).
- 8. Buitenweg anticipates at least a "multi electrode array" (MEA), over which an homogeneous culture of interconnected neurons, so that forming a cell network, is grown on, whereon said MEA is able to stimulate and record the elect activity of said neurons (**Buitenweg**, page 725, Introduction: Examiner's Note (EN): Buitenweg's MEA is equivalent to applicant's MEA).

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Conclusion

9. The prior art of record and not relied upon is considered pertinent to applicant's disclosure.

- Buitenweg et al, Finite Element Modeling of the Neuron-electrode Interface
- Eggers et al, Electronically wired Petri dish: A microfabricated interface to the biological neural network
- Buitenweg et al, Finite Element Modeling of the Neuron-Electrode Interface:
 Sealing Resistance and Stimulus Transfer at Transitions from Complete to
 Defect Sealing
- Buitenweg et al., Finite Element Modeling of the Neuron-Electrode Interface: Stimulus Transfer and Geometry
- 10. Claims 1-7 are rejected.

Correspondence Information

11. Any inquiry concerning this information or related to the subject disclosure should be directed to the Primary Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 5:30 a.m. to 4:00 p.m.

As detailed in MPEP 502.03, communications via Internet e-mail are at the discretion of the applicant. Without a written authorization by applicant recorded in the applicant's file, the USPTO will not respond via e-mail to any Internet correspondence

which contains information subject to the confidentiality requirement as set forth in 35 U.S.C. 122. A paper copy of such correspondence will be placed in the appropriate patent application. The following is an example authorization which may be used by the applicant:

Notwithstanding the lack of security with Internet Communications, I hereby authorize the USPTO to communicate with me concerning any subject matter related to the instant application by email. I understand that a copy of such communications related to formal submissions will be made of record in the applications file.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, David R. Vincent can be reached at (571) 272-3080.

Commissioner of Patents and Trademarks,

Any response to this office action should be mailed to:

Washington, D. C. 20231;

Hand delivered to:

Receptionist,

Customer Service Window,

Randolph Building,

401 Dulany Street,

Alexandria, Virginia 22313,

(located on the first floor of the south side of the Randolph Building);

or faxed to:

(571) 273-8300 (for formal communications intended for entry.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

/Joseph P. Hirl/ Primary Examiner, Art Unit 2129 March 18, 2008